

**Listing of Claims:**

Claims 1-19 (Canceled).

20. (Previously Presented) A camera apparatus comprising:  
an image pickup device which acquires an object image and  
outputs an image signal;

5 a recording unit which records the image signal output from  
the pickup device;

a first detector which detects a light of a predetermined  
wavelength included in the object image based on the image signal  
output from the image pickup device;

10 a determination unit which determines whether an image  
pickup frame period is synchronized with a period of an optical  
signal which is included in the image signal output from the  
image pickup device;

15 a synchronizing unit which synchronizes the image pickup  
frame period with the period of the optical signal by shifting a  
phase of the image pickup frame period when the determination  
unit determines that the image pickup frame period is not  
synchronized with the period of the optical signal; and

20 a controller which executes a predetermined control  
operation when the light of the predetermined wavelength is  
detected by the detector.

21. (Previously Presented) The camera apparatus according to claim 20, wherein:

the first detector detects a transmitting position of the light; and

5 the controller executes the predetermined control operation based on the transmitting position of the light detected by the first detector.

22. (Previously Presented) The camera apparatus according to claim 21, further comprising:

a second detector which detects a plurality of types of code data which are transmitted by the optical signal, which is  
5 periodically output from the image pickup device; and

wherein the controller executes the control operation based on the plurality of types of code data detected by the second detector.

23. (Previously Presented) The camera apparatus according to claim 22, wherein:

the first detector detects the light before the second detector detects the code data.

Claims 24-32 (Canceled).

33. (Previously Presented) A camera operation method comprising:

acquiring an object image and outputting an image signal;  
recording the output image signal;

5 detecting a light of a predetermined wavelength included in the object image based on the output image signal;

determining whether an image pickup frame period is synchronized with a period of an optical signal which is included in the output image signal;

10 synchronizing the image pickup frame period with the period of the optical signal by shifting a phase of the image pickup frame period when it is determined that the image pickup frame period is not synchronized with the period of the optical signal;  
and

15 executing a predetermined control operation when the light of the predetermined wavelength is detected.

Claims 34-39 (Canceled).